



## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

**Name:** MS-262 Cleaner for Plastic,  
Glass & Metal

**Product Use:** Cleaner for Plastic,  
Glass & Metal

### MANUFACTURER/DISTRIBUTOR:

Miller-Stephenson Chemical  
55 Backus Ave.  
Danbury, Conn. 06810 USA  
(203) 743-4447

**Emergency Phone Number:**  
(800) 424-9300

## 2. HAZARDS IDENTIFICATION

**Physical Hazards:** Flammable liquids, Category 4

**Health Hazards:** None classified.

**Environmental Hazards:** None classified.

**OSHA Defined Hazards:** None classified.

### GHS Label Elements:

**Pictogram:** not required

**Signal word:** Warning

**Hazard statement:** Combustible liquid

### Precautionary statements:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Wear protective gloves/eye protection/face protection.

In case of fire: Use appropriate media to extinguish

Store in a well-ventilated place. Keep cool.

## 3. INGREDIENTS

<u>Material (s)</u>	<u>CAS #</u>	<u>Approximate %</u>
Ethyl Alcohol	64-17-5	2 – 10
Diethylene Glycol Monobutyl Ether	112-34-5	1 – 2.5
Non-hazardous and other components below reportable levels		> 90

#### 4. **FIRST AID MEASURES**

**Eye:** Immediately rinse with water, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation persists.

**Skin:** Wash off with soap and water. Get medical attention if irritation or symptoms of exposure develop.

**Inhalation:** Remove victim to fresh air. Get medical attention if symptoms develop or persist.

**Ingestion:** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

**Most important symptoms/effects, acute and delayed:** Not available.

#### 5. **FIRE FIGHTING MEASURES**

**Flash point:** 143.1°F/61.5°C estimated

**Suitable Extinguishing Media:** Use water fog, foam, carbon dioxide, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards:** This product is combustible and heating may generate vapors which may form explosive vapor/air mixtures.

**Special Fire Fighting Instruction:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards:** Combustible liquid.

#### 6. **ACCIDENTAL RELEASE MEASURES**

**Spill:** Keep unnecessary people away from and upwind from spill. Keep out of low areas. Wear appropriate personal protective equipment. Eliminate all sources of ignition. Keep combustibles (wood, paper, oil etc) away from spilled material. Ventilate area. Stop the leak if you can do so without risk. Prevent entry into waterways, sewers, basements or other confined areas. Use non-combustible material like vermiculite, sand, or earth to soak up material and collect into a suitable container for disposal.

#### 7. **HANDLING AND STORAGE**

**Handling:** Keep away from heat, flame or other sources of ignition. Avoid contact with eyes. Avoid prolonged exposure. Avoid breathing vapors and mists. Use with adequate ventilation. Wash exposed skin thoroughly with soap and water after use.

**Storage:** Keep away from heat and sources of ignition. Store in a cool, well-ventilated, dry place out of direct sunlight. Keep container tightly closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits:

Ethyl Alcohol  
Diethylene Glycol Monobutyl Ether

### ACGIH

1000 ppm (STEL)  
10 ppm (TWA)

### OSHA

1000 ppm (PEL)

**Ventilation:** General ventilation should be adequate for normal use. For operations where the occupational exposure limit may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.

**Respiratory Protection:** None needed under normal use conditions. For operations where the occupational exposure limit may be exceeded use NIOSH mechanical filter/organic vapor cartridge or air-supplied respirator.

**Skin Protection:** Impervious gloves are recommended for operations which may result in prolonged/ repeated skin contact.

**Eye Protection:** Wear chemical safety glasses or goggles to prevent eye contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 212°F/100°C estimated

**Vapor Pressure:** 23.01 psig @ 70°F/21°C estimated

**pH Information:** N.A.

**Solubility:** Not Available

**Vapor Density (Air=1):** Not Determined

**Specific Gravity:** 0.992 g/cc estimated

**Appearance:** Liquid

**Physical State:** Liquid

**Color:** Colorless to pale yellow

**Odor:** N.A.

## 10. STABILITY AND REACTIVITY

**Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical Stability:** Stable at normal storage conditions.

**Possibility of hazardous reactions:** Hazardous polymerization does not occur.

**Conditions to Avoid:** Keep away from heat, sparks, flames and other sources of ignition. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** None known.

## 11. TOXICOLOGICAL INFORMATION

### Ethyl Alcohol

#### Acute

**Oral:** LD50: 7060 mg/kg in rats; 6000 mg/kg in monkeys; 10500 ml/kg in mice

**Inhalation:** 4 hour LC50: >115.9 mg/l in rats

**Inhalation:** LC50: >60000 ppm in mice

**Inhalation:** 6 hour LC50: 43.68 mg/l in cats

### Diethylene Glycol Monobutyl Ether

#### Acute

**Dermal:** 24 hour LD50: 2764 mg/kg in rabbits

**Dermal:** 2 day LD50: 2ml/kg in guinea pigs

**Oral:** LD100: 4000 mg/kg in rabbits

**Oral:** LD50: 2000 mg/kg in guinea pigs, 2410 mg/kg in mice, 2500 – 3000 mg/kg in rabbits, 3306 mg/kg in rats

**Skin corrosion/irritation:** May be irritating to the skin. Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation:** Direct contact with the eyes may cause temporary irritation. May be irritating to the eyes.

**Respiratory sensitization:** Not available.

**Skin sensitization:** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity:** No data available.

**Reproductive toxicity:** Not expected to cause reproductive or developmental effects.

**Specific target organ toxicity:** Not classified for single or repeated exposure.

**Aspiration hazard:** Not an aspiration hazard.

**Chronic effects:** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. ECOLOGICAL INFORMATION

This product is not classified as environmentally hazardous. However, this does not exclude that possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Diethylene Glycol Monobutyl Ether

**Aquatic:** 96 hour LC50: 1300 mg/l in Bluegill (*Lepomis macrochirus*)

### Ethyl Alcohol

**Aquatic:** 48 hour EC50: 7700- 11200 mg/l in Water flea (*Daphnia magna*)

96 hour LC50: > 100.1 mg/l in Fathead minnow (*Pimephales promelas*)

## 13. DISPOSAL CONSIDERATIONS

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. The waste code should be assigned in discussion between the user, the producer, and waste disposal company. Dispose in accordance with all local, regional, and national regulations. Empty containers or liners may retain some product residues. The material and its container must be disposed of in a safe manner.

**14. TRANSPORT INFORMATION\***

**U.S. DOT**

Not Regulated

**IATA**

Not Regulated

**IMDG**

Not Regulated

\*Only regulated in transport for packages greater than 450 liters volume.

**15. REGULATORY INFORMATION**

**US Federal Regulations:**

**TSCA:** All ingredients are listed in TSCA inventory.

**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical: Yes

**CERCLA (Superfund) reportable quantity:** None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard catagories:** Acute Health - No  
Chronic Health - No  
Fire Hazard - Yes  
Reactivity Hazard - No  
Pressure Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313** Not regulated

**Other Federal Regulations:**

**Clean Air Act (CCA) Section 112 Hazardous Air Pollutants ( HAPs) List**

Not regulated.

**Clean Air Act (CCA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

Not regulated.

**16. OTHER INFORMATION**

**FOR INDUSTRIAL USE ONLY**

**REVISION DATE: JUNE 2015**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.